

Figure 1

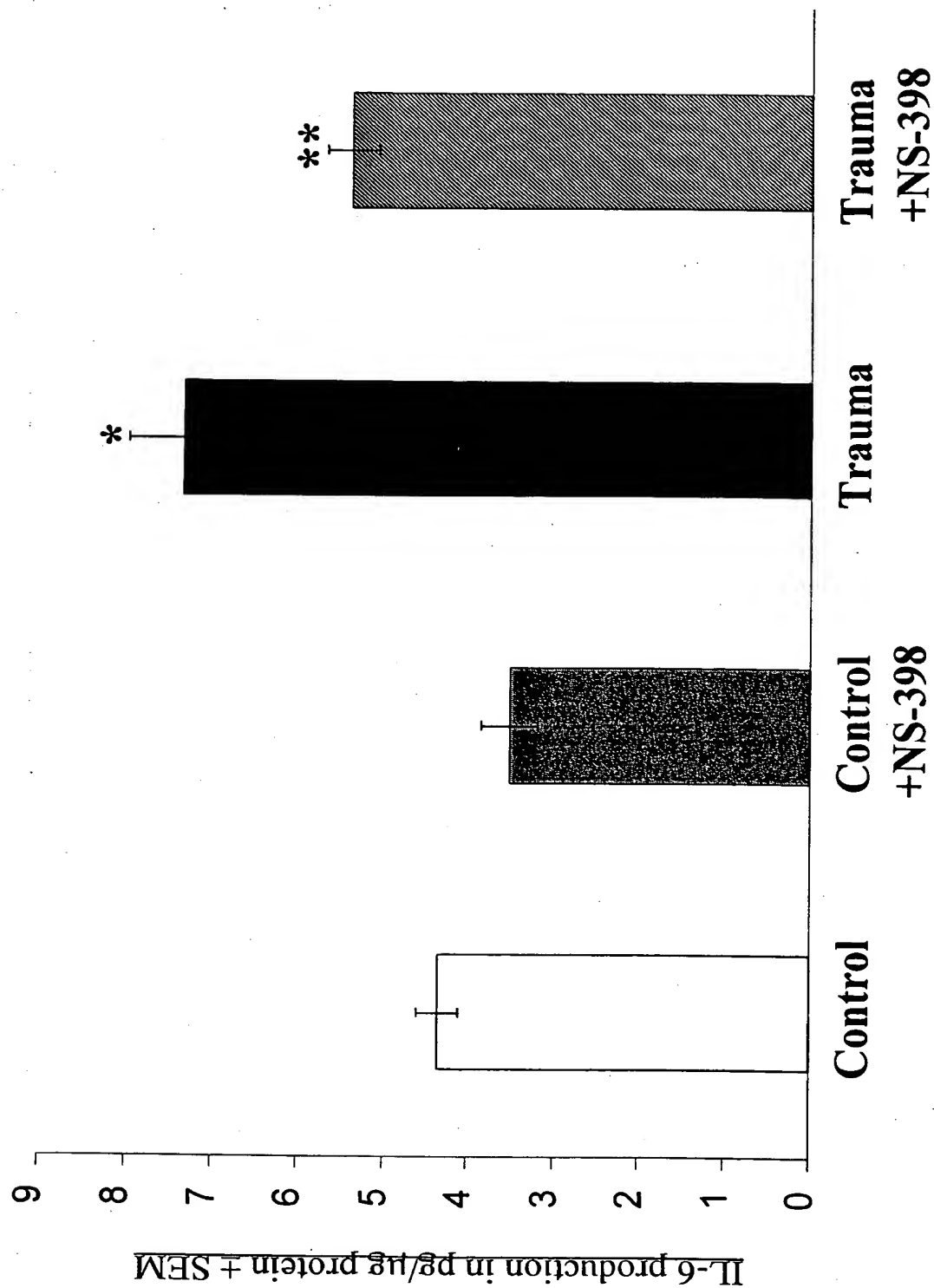


Figure 2

Figure 3 shows the effect of NS-398 on TNF-α production in control and trauma groups. The y-axis represents TNF-α production in pg/μg protein ± SEM, ranging from 0 to 3. The x-axis shows four groups: Control, Control + NS-398, Trauma, and Trauma + NS-398. The Control group has a mean production of approximately 1.6 pg/μg protein. The Control + NS-398 group shows a significant increase to approximately 2.1 pg/μg protein. The Trauma group shows a further increase to approximately 2.6 pg/μg protein. The Trauma + NS-398 group shows a decrease to approximately 2.0 pg/μg protein. Statistical significance is indicated by asterisks: \* for Control vs. Control + NS-398, and \*\* for Trauma vs. Trauma + NS-398.

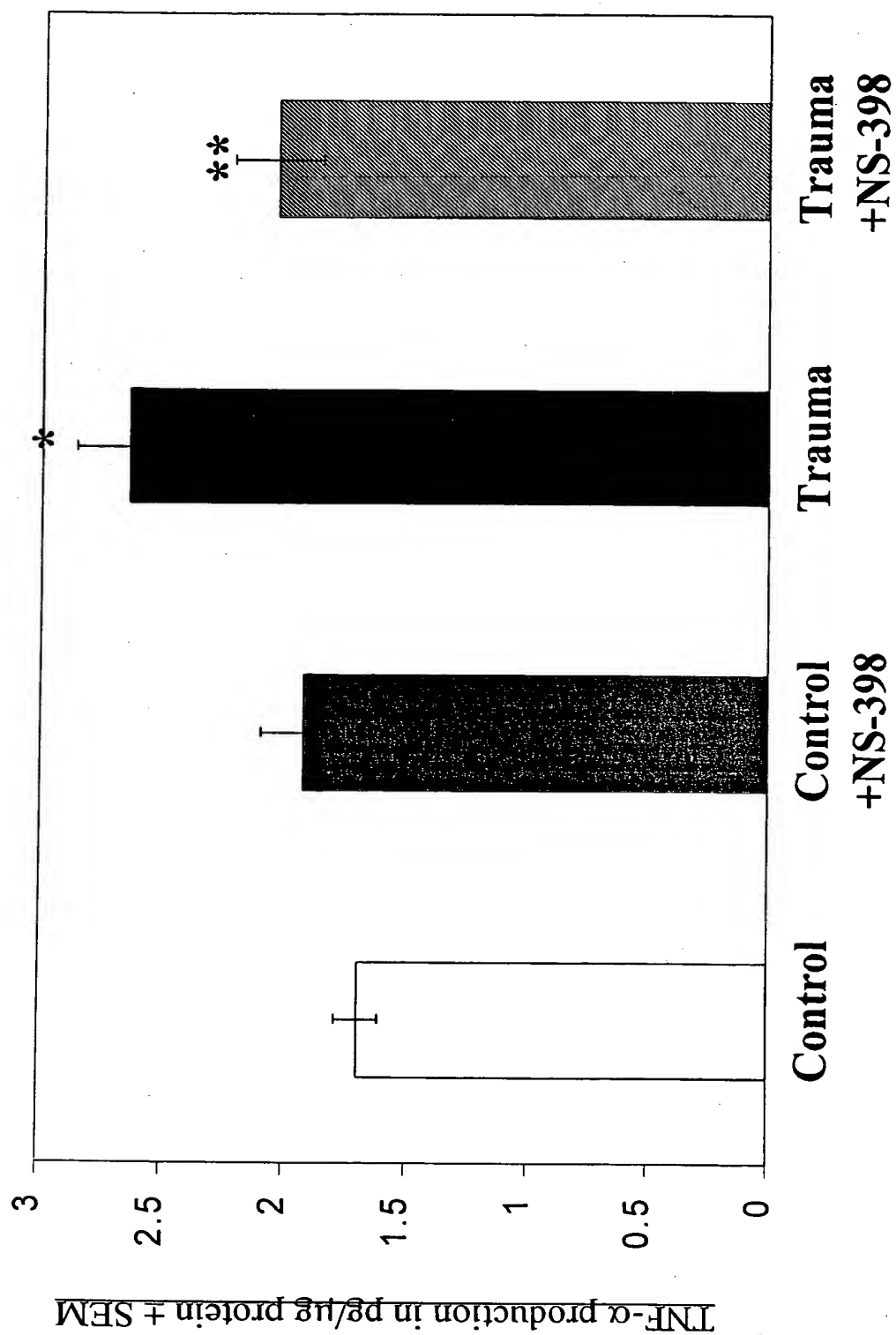


Figure 3

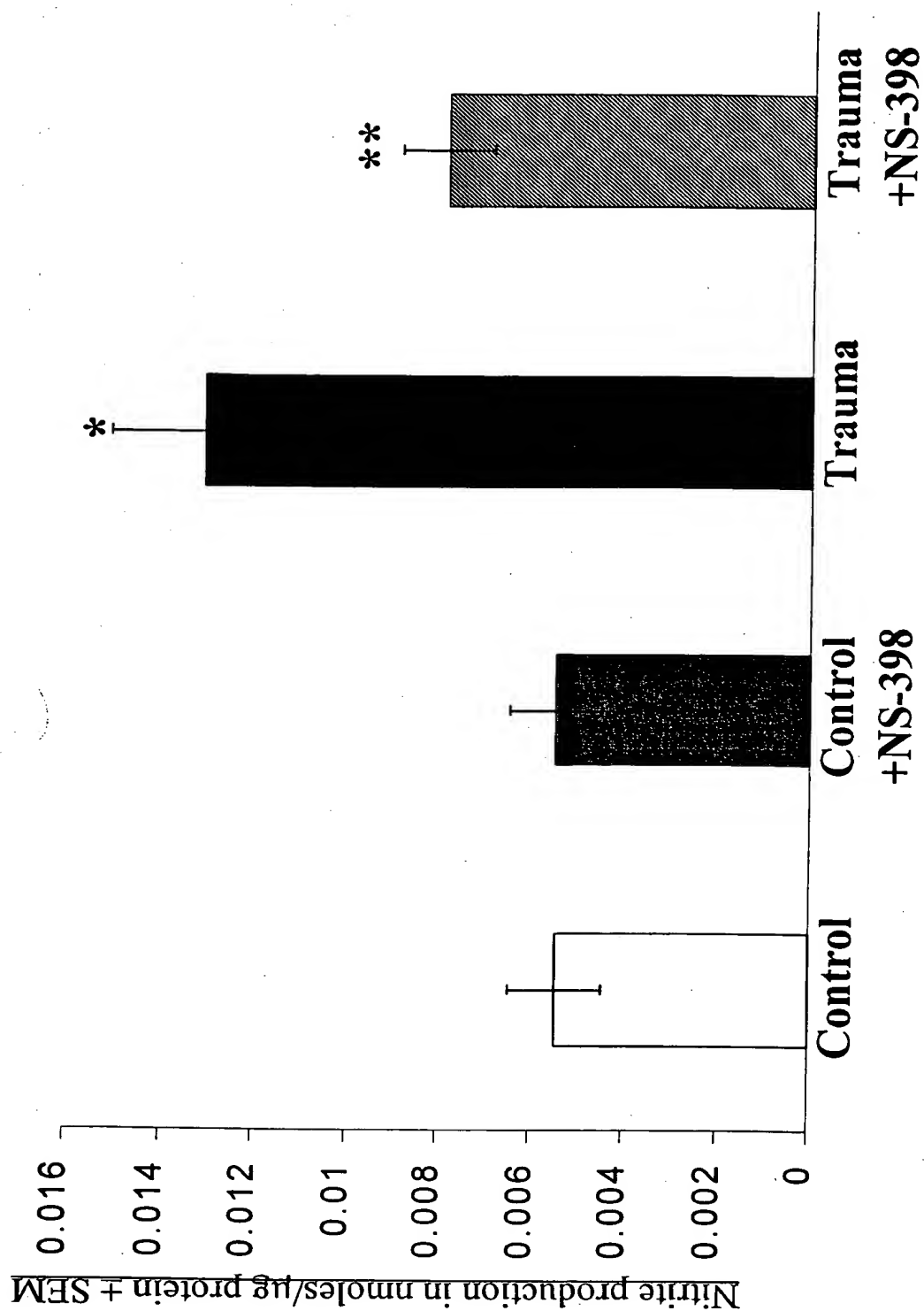
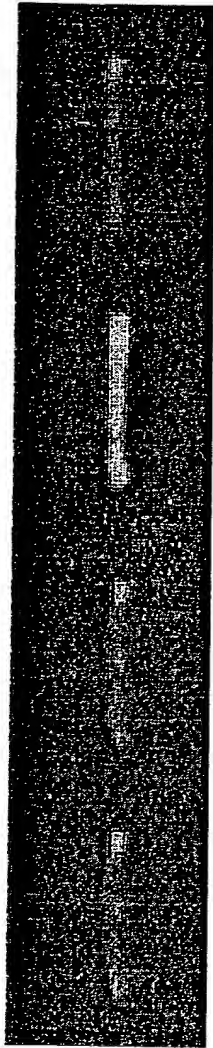


Figure 4

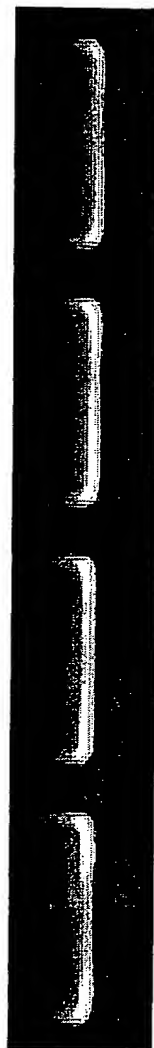
Figure 5 shows the results of Northern blot analysis of COX-2 mRNA levels in brain tissue from control, trauma, and trauma + NS-398 groups. The blot shows a strong band for COX-2 mRNA in the trauma group, which is significantly reduced in the trauma + NS-398 group. GAPDH mRNA levels are used as a loading control and show consistent intensity across all groups.

mRNA

C CN T TN



COX-2



GAPDH

Control Control + NS-398 Trauma Trauma + NS-398

Figure 5

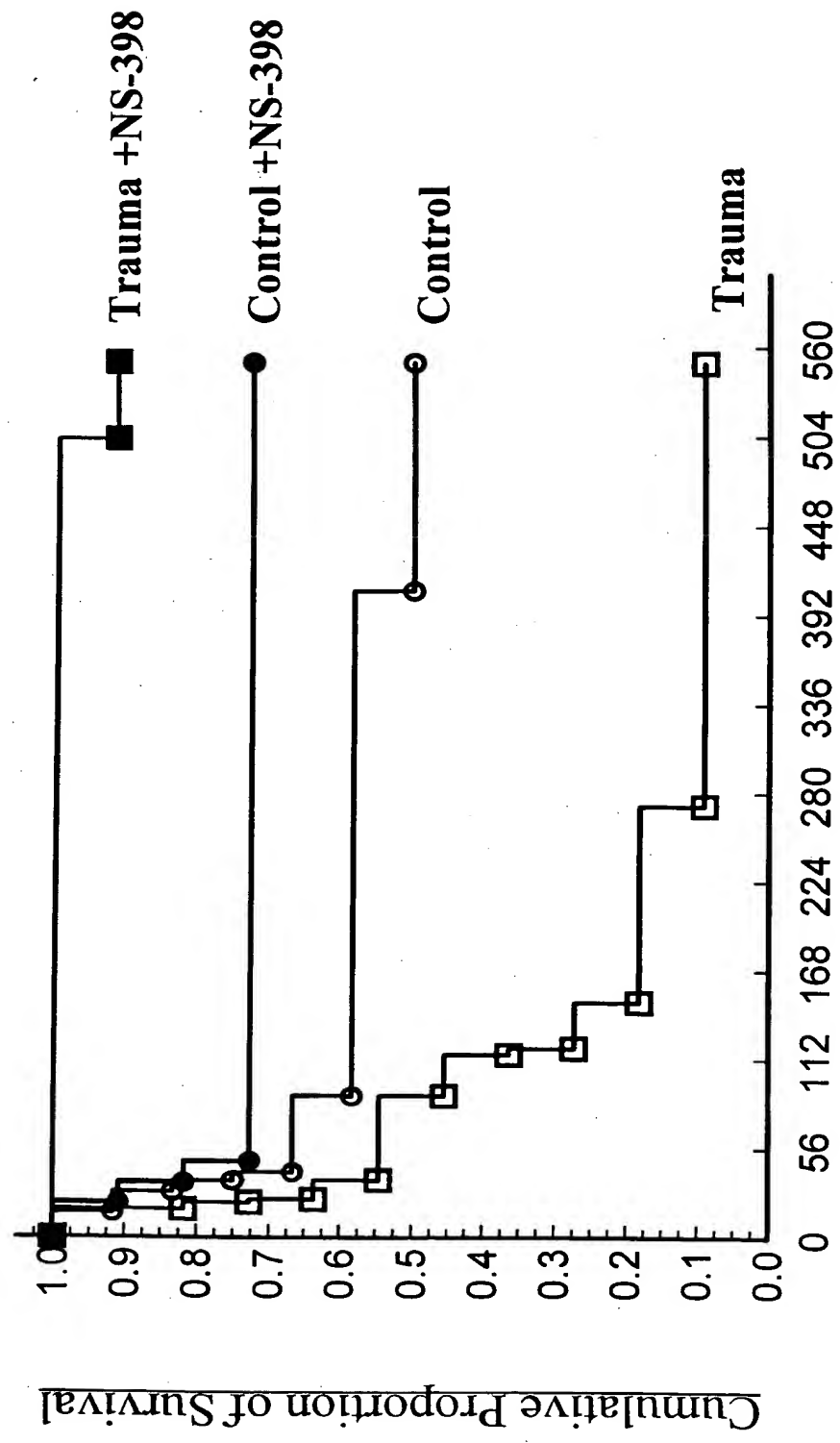


Figure 6

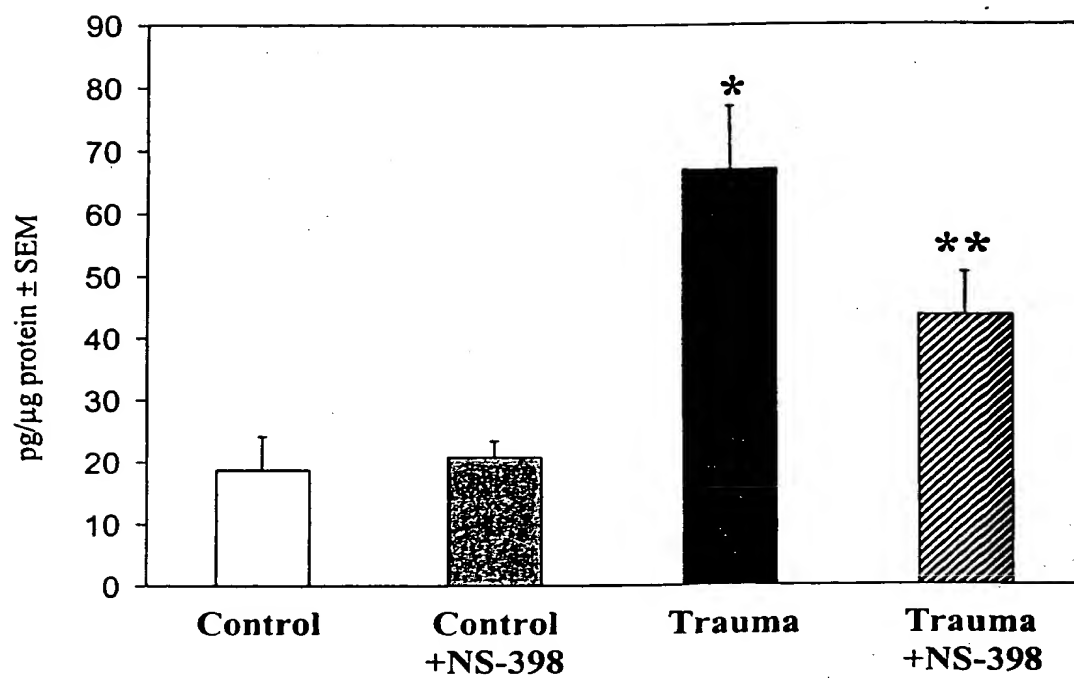


Figure 7.

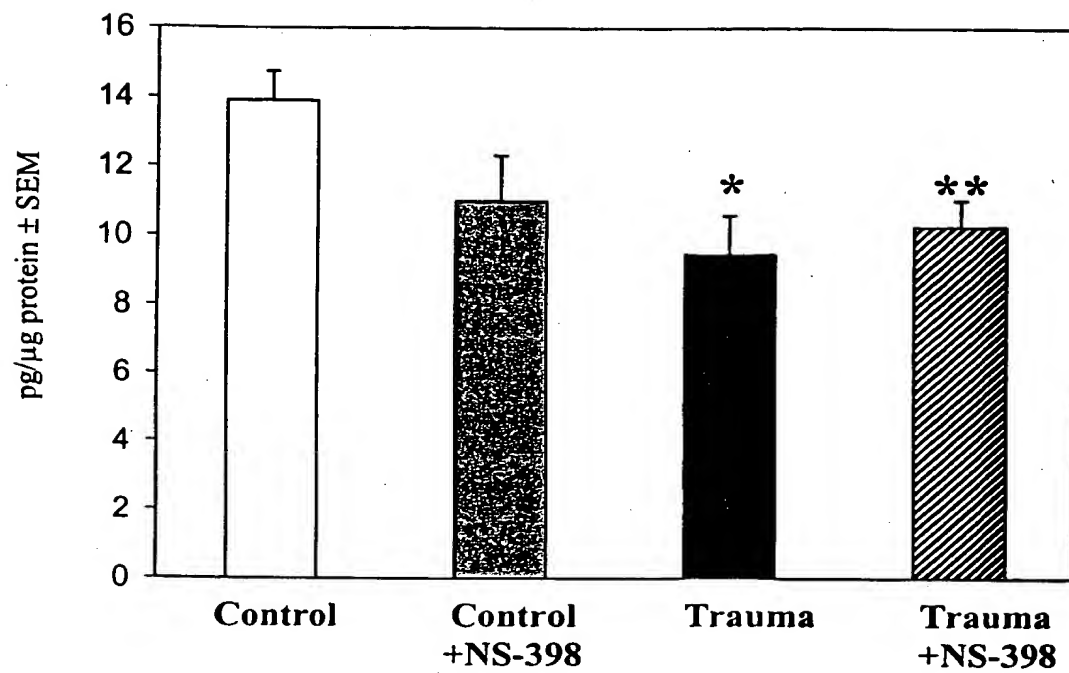


Figure 8



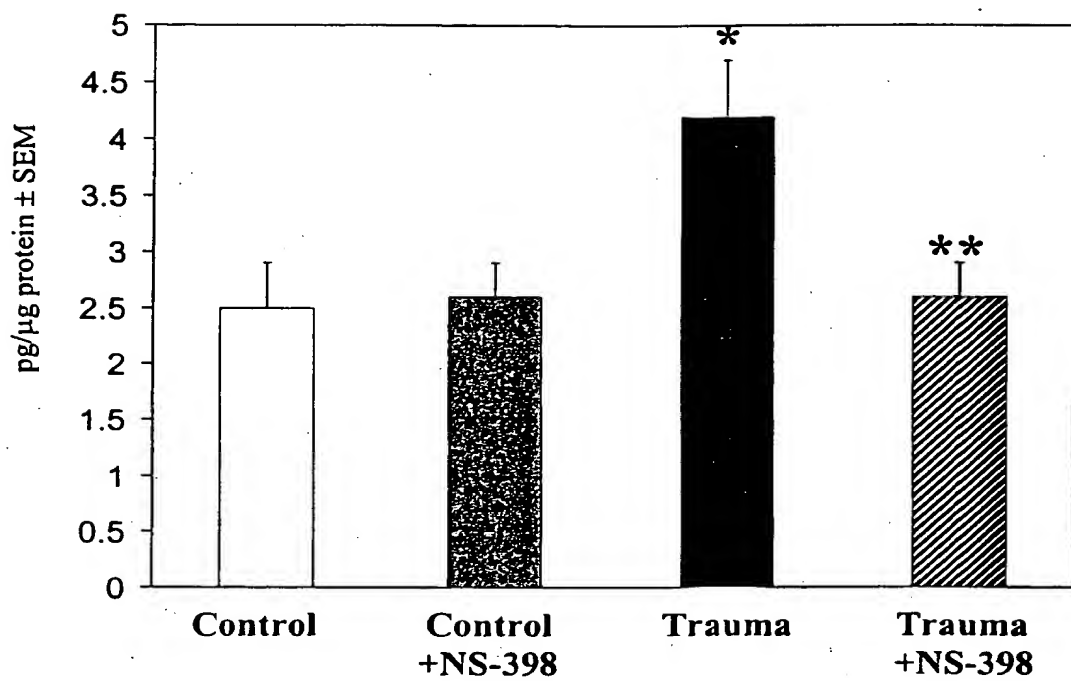


Figure 9

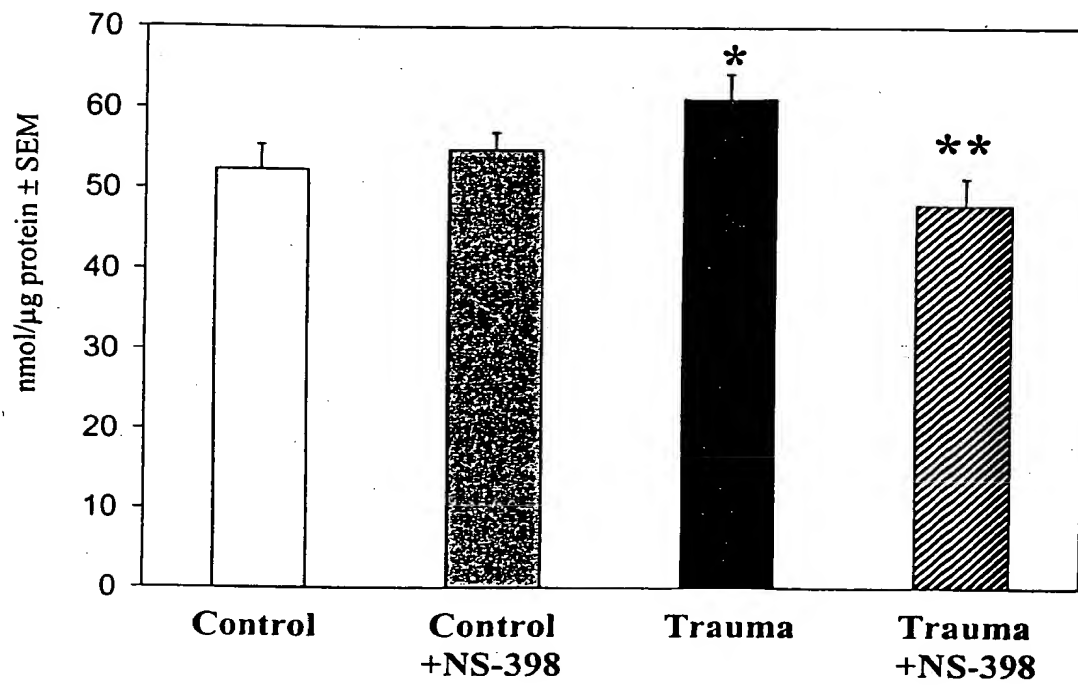


Figure 10

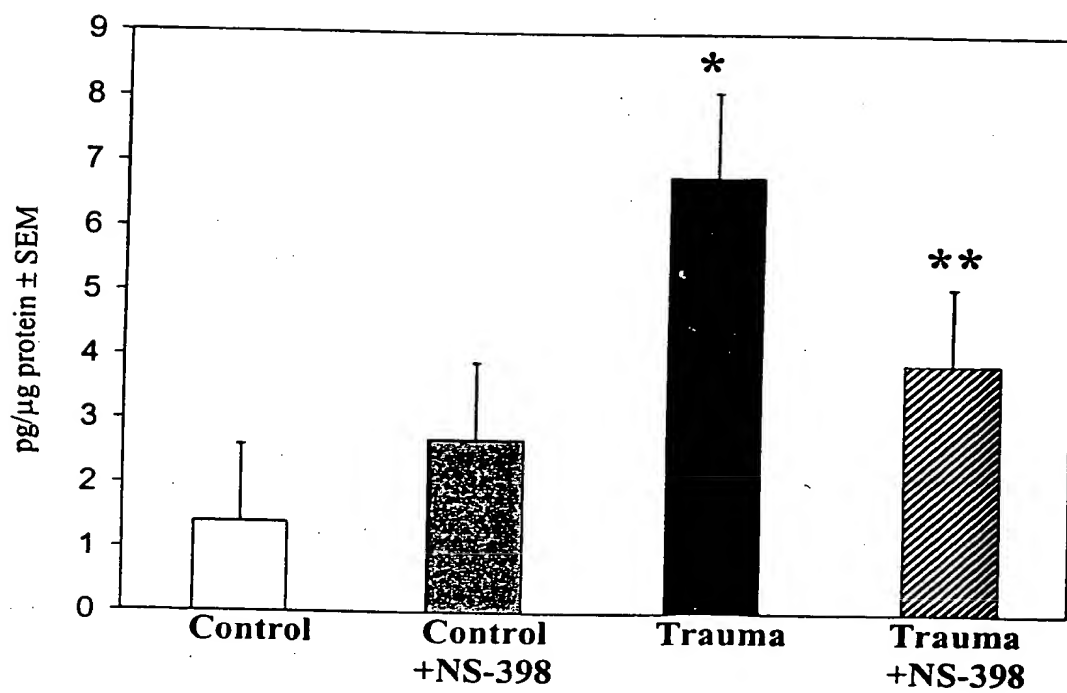


Figure 11

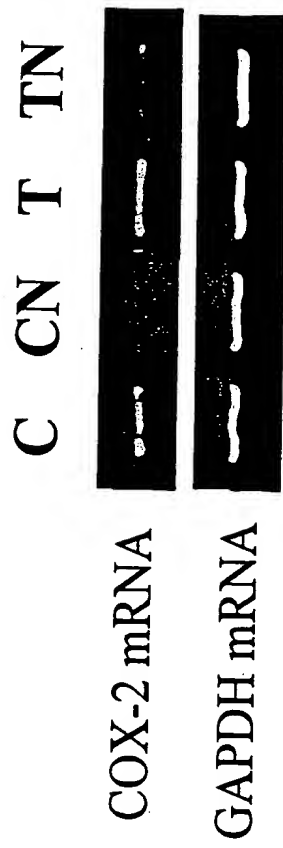


Figure 12

Figure 13 shows the results of Western blot analysis of NF- $\kappa$ B and I $\kappa$ B- $\alpha$  in C, CN, T, and TN cells. The blots show bands for NF- $\kappa$ B and I $\kappa$ B- $\alpha$  in all four cell types, indicating that these proteins are expressed in all four cell types.

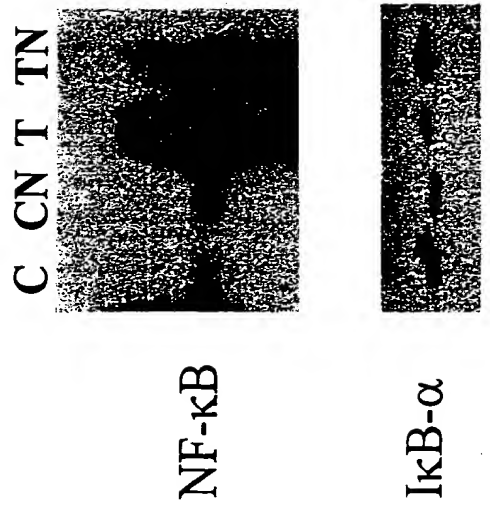


Figure 13

Cumulative Proportion of Survival

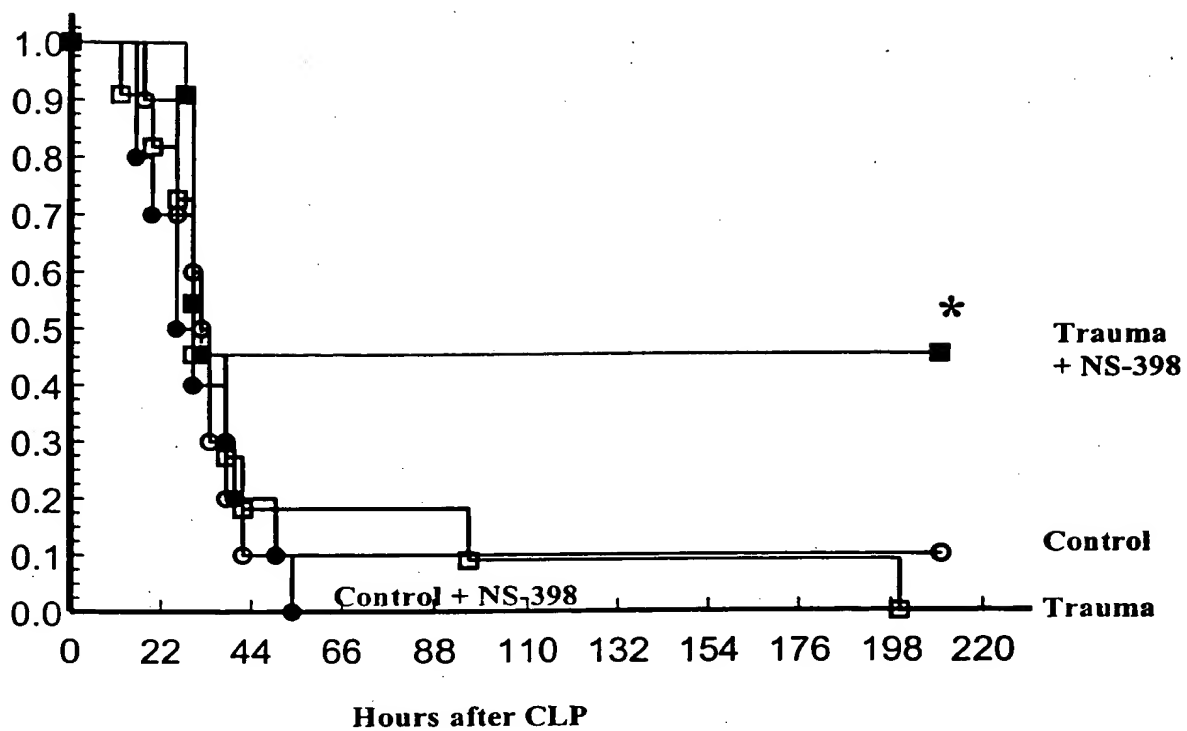


Figure 14

Figure 15

PGE<sub>2</sub> production in pg/μg protein ± SEM

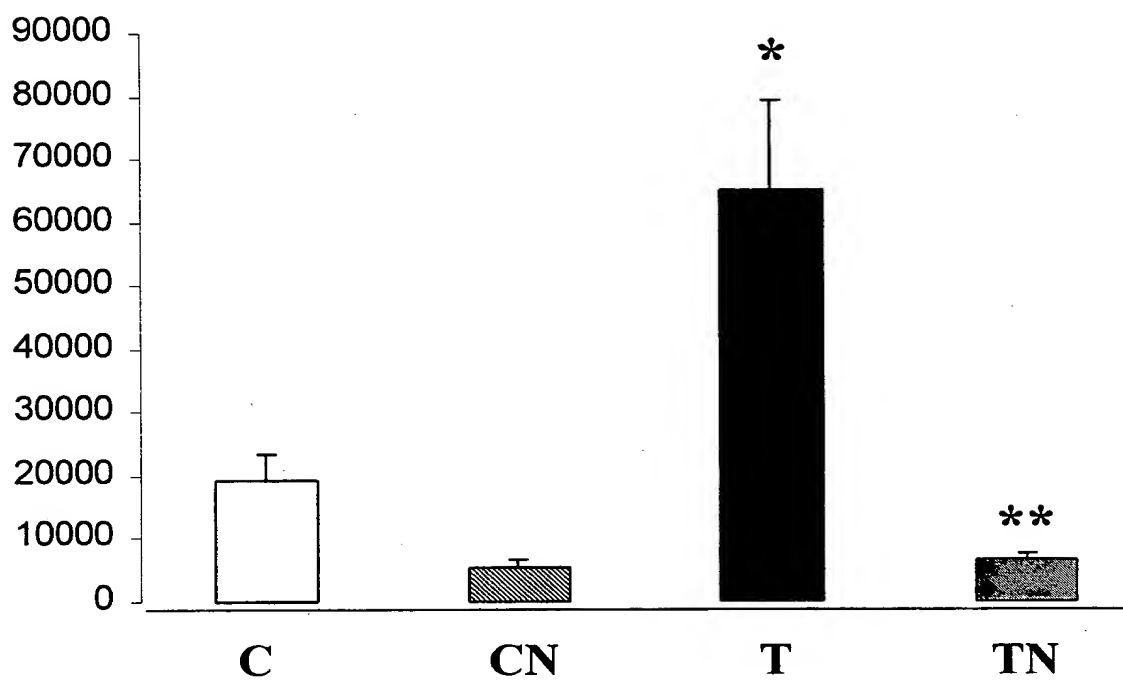


Figure 15

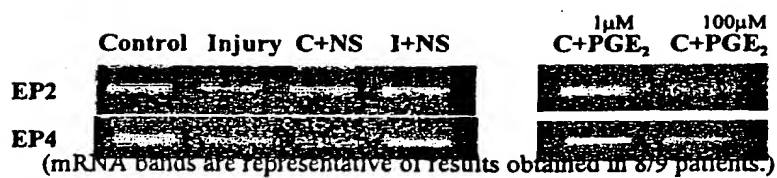


Figure 16



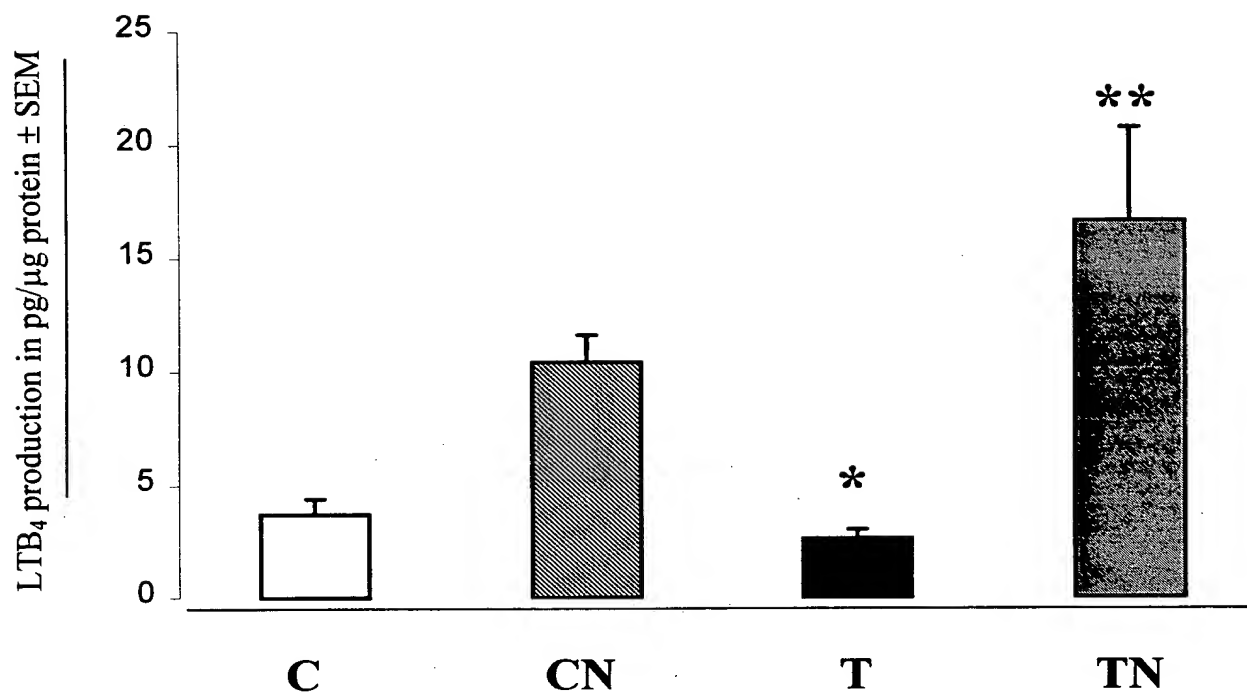


Figure 17

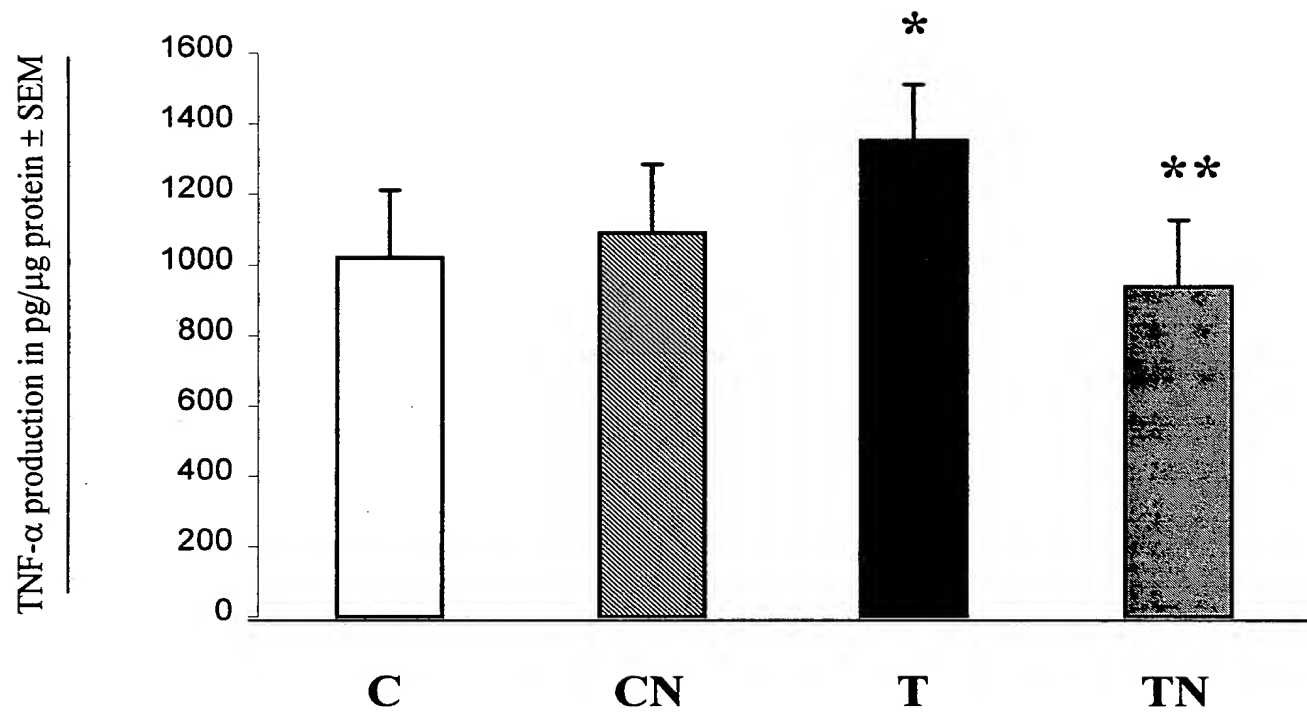


Figure 18

EP1-

EP1+

EP3-

EP3+

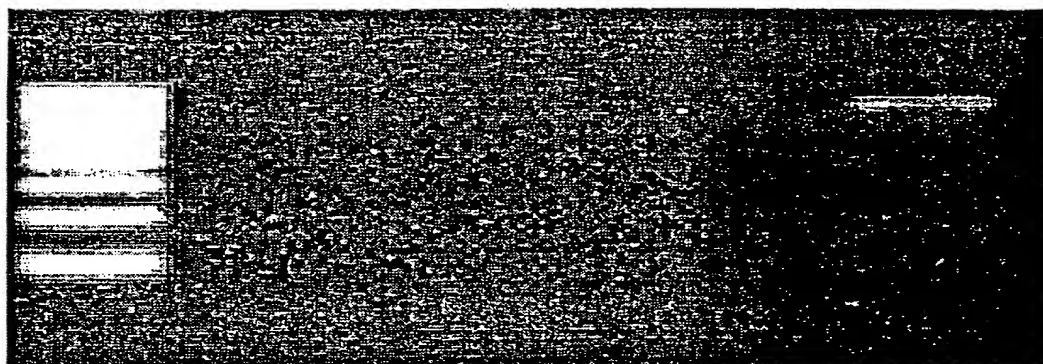


Figure 19

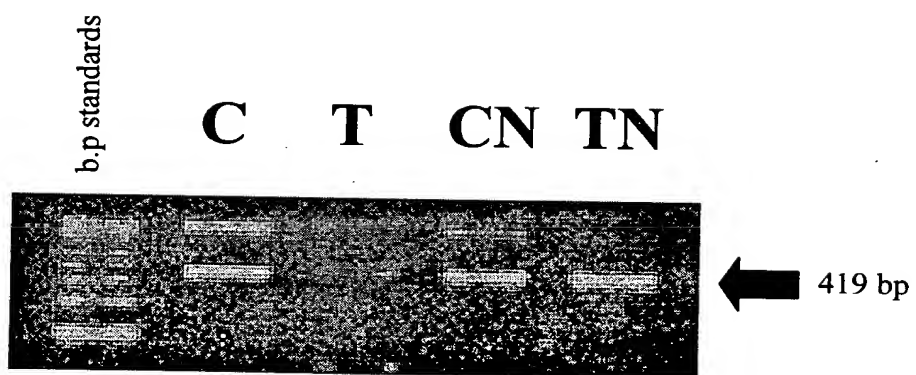
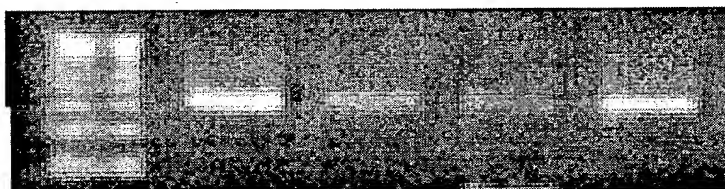


Figure 20

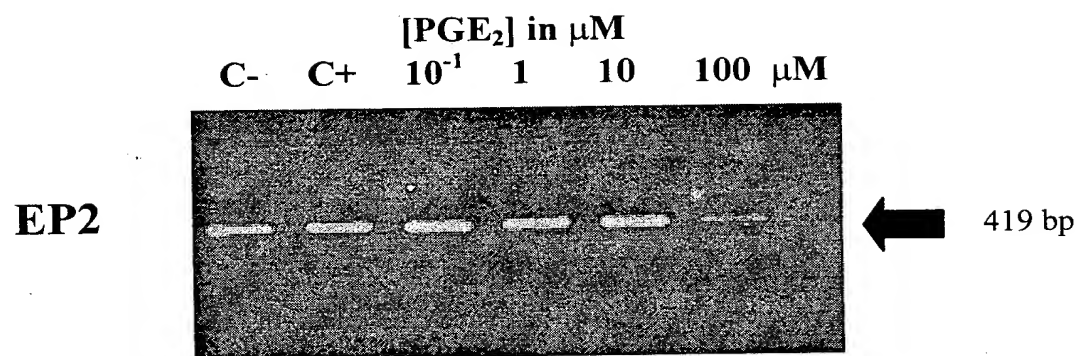
b.p. standards

C T CN TN

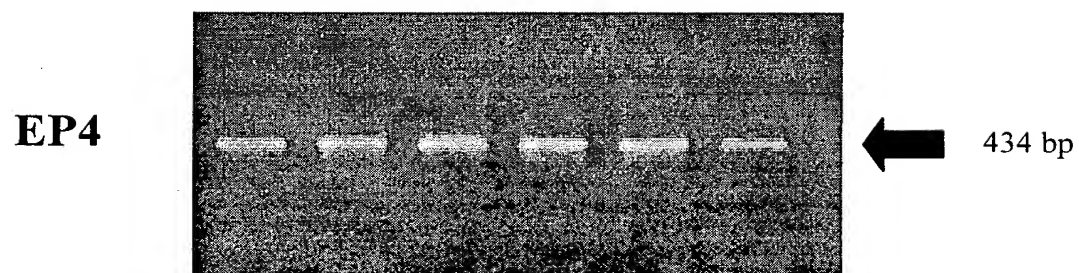


← 434 bp

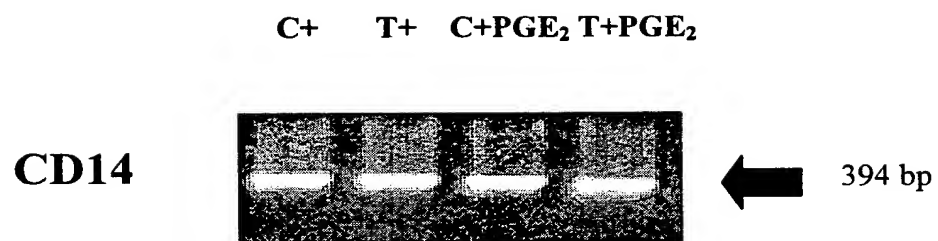
Figure 21



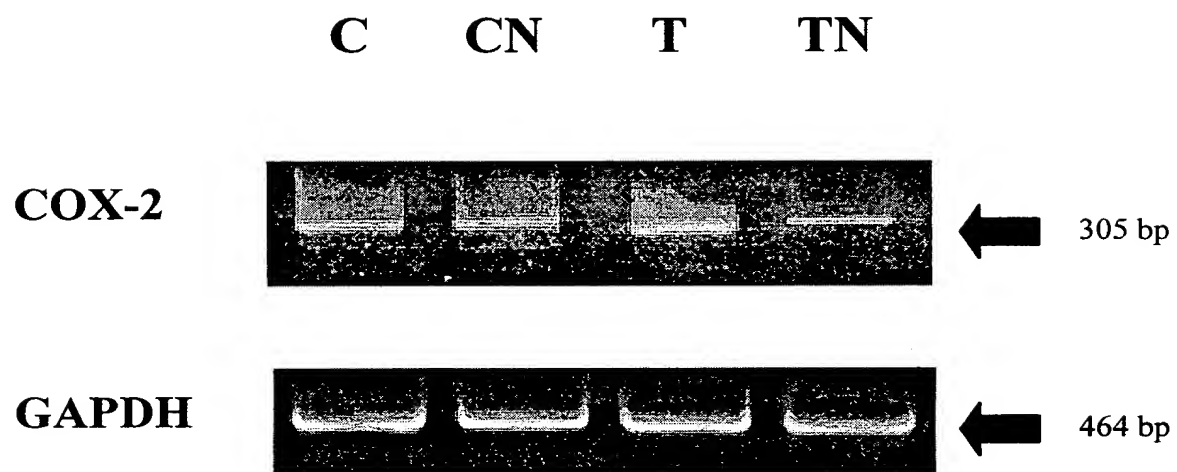
**Figure 22A**



**Figure 22B**



**Figure 23**



**Figure 24**